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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

420-9210 (425) 420-9200 (509) 924-9200

924-9290 (503) 906-9200

FAX 906-9210 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: M 10 607 5

CLIENT: BRISTOL	esentativo.						ICE TO									TURN	NAROUNI	D REQUE	ST in Business I	Days*
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PROJECT NUMBER: 210	90																ОТН	ER	,	_
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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/25/01 18:20. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson

Environmental Group Leader

1112

Work Orders included in this report:

M106075



Anchorage, AK 99502-1116

Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223

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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported: 06/27/01 22:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMA1004SL	M106075-01	Soil	06/25/01 12:00	06/25/01 18:20
01AMA1005SL	M106075-02	Soil	06/25/01 12:05	06/25/01 18:20
01AMA1006SL	M106075-03	Soil	06/25/01 12:10	06/25/01 18:20
01AMA1007SL	M106075-04	Soil	06/25/01 12:15	06/25/01 18:20

Project Manager: Anne Kranawetter

C. O. C. # 111

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter 06/27/01 22:57

Diesel Hydrocarbons (C10-C25) per AK102 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMA1004SL (M106075-01) Soil					Sampled: 06	/25/01 Rece	eived: 06/25/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/25/01	06/26/01	0106087	
Surr: 1-Chlorooctadecane Surr: Triacontane	89.5 % 92.4 %	50-150 50-150							
01AMA1005SL (M106075-02) Soil					Sampled: 06	/25/01 Rece	eived: 06/25/	01	
Diesel Range Organics	190	150	mg/kg dry	1	AK 102	06/25/01	06/26/01	0106087	
Surr: 1-Chlorooctadecane Surr: Triacontane	96.9 % 98.1 %	50-150 50-150							
01AMA1006SL (M106075-03) Soil					Sampled: 06	/25/01 Rece	eived: 06/25/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/25/01	06/26/01	0106087	
Surr: 1-Chlorooctadecane Surr: Triacontane	100 % 101 %	50-150 50-150							

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering 2000 W International Airport C#1

Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

Project: Amchitka

06/27/01 22:57

BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMA1004SL (M106075-01) Soil					Sampled: 06	/25/01 Rece	eived: 06/25/	01	
Benzene	ND	0.0607	mg/kg dry	50	!1B BTEX/M	ΓΙ 06/26/01	06/26/01	0106090	
Toluene	ND	0.243	"	"	"	"	"	"	
Ethylbenzene	ND	0.243	"	"	"	"	"	"	
Xylenes (total)	ND	0.486	"	"	"	"	"	"	
Naphthalene	ND	2.43	"	"	"	"	"	"	
Surr: 4-BFB	87.7 %	50-150							
01AMA1005SL (M106075-02) Soil					Sampled: 06	/25/01 Rece	eived: 06/25/	01	
Benzene	ND	0.0525	mg/kg dry	50	!1B BTEX/M	Π 06/26/01	06/26/01	0106090	
Toluene	ND	0.210	"	"	"	"	"	"	
Ethylbenzene	ND	0.210	"	"	"	"	"	"	
Xylenes (total)	ND	0.420	"	"	"	"	"	"	
Naphthalene	ND	2.10	"	"	"	"	"	"	
Surr: 4-BFB	84.9 %	50-150							
01AMA1006SL (M106075-03) Soil					Sampled: 06	/25/01 Rece	eived: 06/25/	01	
Benzene	ND	0.0811	mg/kg dry	50	!1B BTEX/M	Π 06/26/01	06/26/01	0106090	
Toluene	ND	0.324	"	"	"	"	"	"	
Ethylbenzene	ND	0.324	"	"	"	"	"	"	
Xylenes (total)	ND	0.649	"	"	"	"	"	"	
Naphthalene	ND	3.24	"	"	"	"	"	"	
Surr: 4-BFB	85.6 %	50-150							
01AMA1007SL (M106075-04) Soil					Sampled: 06	/25/01 Rece	eived: 06/25/	01	
Benzene	ND	0.141	mg/kg dry	50	!1B BTEX/MT	ΓΙ 06/26/01	06/26/01	0106090	
Toluene	ND	0.562	"	"	"	"	"	"	
Ethylbenzene	ND	0.562	"	"	"	"	"	"	
Xylenes (total)	ND	1.12	"	"	"	"	"	"	
Naphthalene	ND	5.62	"	"	"	"	"	"	
Surr: 4-BFB	92.9 %	50-150							

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

06/27/01 22:57

Physical Parameters per APHA/ASTM/EPA Methods North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit U	nits Dilutio	n Method	Prepared	Analyzed	Batch	Notes
01AMA1004SL (M106075-01) Soil				Sampled: 06/2	5/01 Rece	ived: 06/25/0	01	
% Solids	89.6	0.0100 % by	Weight 1	Gravimetric	06/25/01	06/26/01	0106088	
01AMA1005SL (M106075-02) Soil				Sampled: 06/2	5/01 Rece	ived: 06/25/0	01	
% Solids	89.0	0.0100 % by	Weight 1	Gravimetric	06/25/01	06/26/01	0106088	
01AMA1006SL (M106075-03) Soil				Sampled: 06/2	5/01 Rece	ived: 06/25/0	01	
% Solids	84.2	0.0100 % by	Weight 1	Gravimetric	06/25/01	06/26/01	0106088	
01AMA1007SL (M106075-04) Soil				Sampled: 06/2	5/01 Rece	ived: 06/25/0	01	
% Solids	100	0.0100 % by	Weight 1	Gravimetric	06/25/01	06/26/01	0106088	

North Creek Analytical - Mobile Lab



Anchorage, AK 99502-1116

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06/27/01 22:57

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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Project Number: 21090 Reported:

Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

Project Manager: Anne Kranawetter

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0106087 - 3545 ASE									
Blank (0106087-BLK1)			Prepare	ed: 06/25/0	1 Analyz	ed: 06/26/0	01		
Diesel Range Organics	ND	150 mg/kg we	et						
Surr: 1-Chlorooctadecane	20.8	"	23.4		88.9	50-150			
Surr: Triacontane	19.1	"	23.4		81.6	50-150			
LCS (0106087-BS1)			Prepare	ed: 06/25/0	1 Analyz	ed: 06/26/0	01		
Diesel Range Organics	1340	150 mg/kg we	et 1250	•	107	75-125	•		•
Surr: 1-Chlorooctadecane	21.6	"	23.4		92.3	50-150			
Surr: Triacontane	23.2	"	23.4		99.1	50-150			
LCS Dup (0106087-BSD1)			Prepare	ed: 06/25/0	1 Analyz	ed: 06/26/0	01		
Diesel Range Organics	1310	150 mg/kg we	et 1250		105	75-125	2.26	20	
Surr: 1-Chlorooctadecane	24.9	"	23.4		106	50-150			
Surr: Triacontane	21.6	"	23.4		92.3	50-150			
Matrix Spike (0106087-MS1)	So	ource: M106075-01	Prepare	ed: 06/25/0	1 Analyz	ed: 06/26/0	01		
Diesel Range Organics	1560	150 mg/kg di	v 1380	ND	113	60-140		-	

Matrix Spike (0106087-MS1)	Source	ce: M106075-01	Prepared: 06/25/01 Analyzed: 06/26/01				
Diesel Range Organics	1560	150 mg/kg dry	1380	ND	113	60-140	
Surr: 1-Chlorooctadecane	21.5	"	25.9		83.0	50-150	
Surr: Triacontane	25.2	"	25.9		97.3	50-150	

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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

06/27/01 22:57

BTEX,MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0106090 - MeOH Extraction	n				
Blank (0106090-BLK1)			Prepared &	Analyzed: 06/26/01	
Benzene	ND	0.0250 mg/kg wet			_
Toluene	ND	0.100 "			
Ethylbenzene	ND	0.100 "			
Xylenes (total)	ND	0.200 "			
Naphthalene	ND	1.00 "			
Surr: 4-BFB	2.32	"	2.50	92.8 50-150	
LCS (0106090-BS1)			Prepared &	Analyzed: 06/26/01	
Benzene	2.18	0.0250 mg/kg wet	2.50	87.2 69-138	
Toluene	2.21	0.100 "	2.50	88.4 53-151	
Ethylbenzene	2.41	0.100 "	2.50	96.4 61-141	
Xylenes (total)	6.80	0.200 "	7.50	90.7 62-141	
Naphthalene	3.20	1.00 "	2.50	128 65-135	
Surr: 4-BFB	2.45	"	2.50	98.0 50-150	

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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

06/27/01 22:57

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from:
			\\sisters\elmnt\Report\M106075 FINAL 06 27 01
			2257.mdb
			Default Report (not modified)